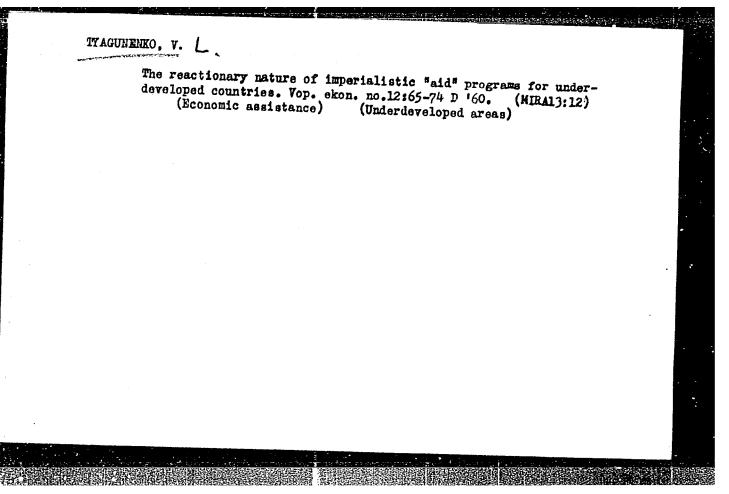
TYAGUNENKO, V. L., Maj

Scheduled to defend publicly his dissertation, "The Enslavement and Systematic Robbing of Backward Countries: The Means of Insuring Maximum Capitalistic Profits," for the degree of Candidate of Economic Sciences, at the Military—Political Academy imeni Lenin, on 28 September 1954. Krasnaya Zvezda, Moscow, 15 Sep 54

SO: SUM 291, 2 Dec 1954



RYMALOV, Viktor Vladimirovich; TYAGUNENKO, Viktor Leonidovich; ARZUMANYAN, A.A., otv. red.; MAKAROV, V., red.; DARONYAN, M., mladshiy red.; MOSKVINA, R., tekhn. red.

[Underdeveloped countries in the world capitalist economy] Slaborazvitye strany v mirovom kapitalisticheskom khoziaistve. Moskva, Izdvo sotsial'no-ekon. lit-ry, 1961. 494 p. (MIRA 14:12)

1. Chlen-korrespondent AN SSSR (for Arzumanyan).
(Underdeveloped areas) (Economic conditions)

TIMBURENKU, 10.

BULGARIA/Microbiology - General Microbiology.

F

Abs Jour

: Ref Zhur Diol., No 1, 1959, 598

Author

: Tyagunenko, Yu.

Inst

: Bulgarian Academy of Sciences.

Title

: Turbidimetric Method of Determining Density of Bacterial

Suspensions in Test Tubes.

Orig Pub

: Izv. Otd. biol. i med. n. B"lc. AN Ser. eksper. biol. 1

med., 1957, No 2, 233-239

Abstract

: A method is described fro measurement of the density of bacterial suspensions with the FEK-M electrophotometer, where the cuvette is replaced by a test tube. The method is 10-20 times as precise as the visual. -- Author's

abstract.

Card 1/1

KARPAROV, A.; KALYCHEVA, I. [Kalucheva, I.]; TYAGUNENKO, Yu. [Tiagunenko, IU.]

Electron-microscopic study of the ultrathin slices of the tobacco
mosaic virus. Trudy epidemiol mikrobiol 8:157-161 '61 [publ. '62].

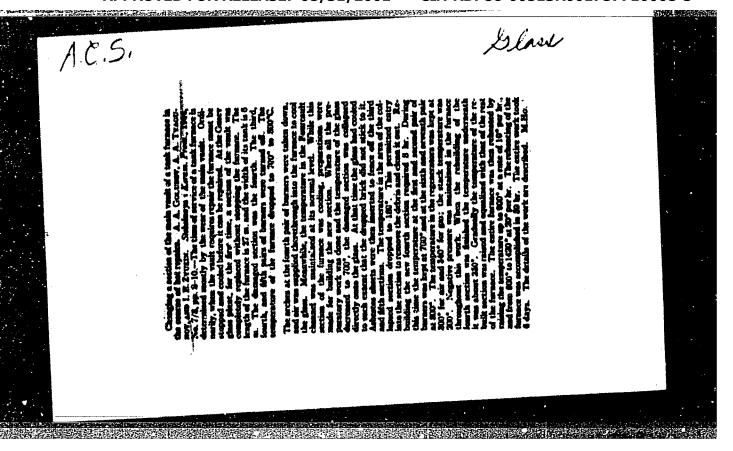
TYAGUNENKO, Yu. V., d-r

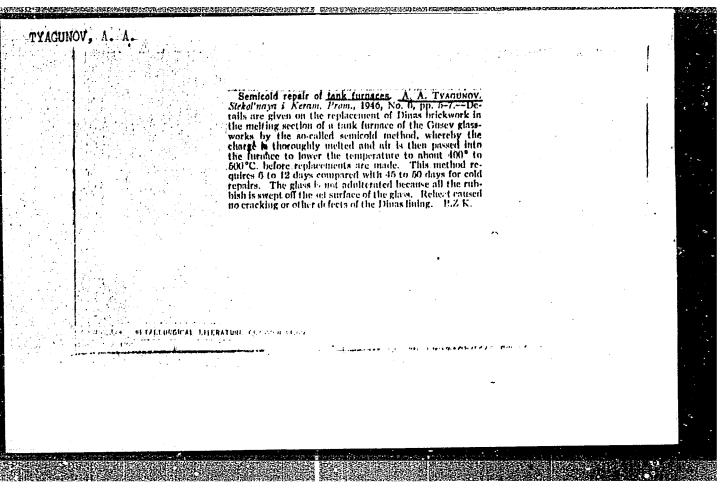
Friends and foes of mankind. Nauka i tekhn maldezh 14 no.3:22-25 Mr 162.

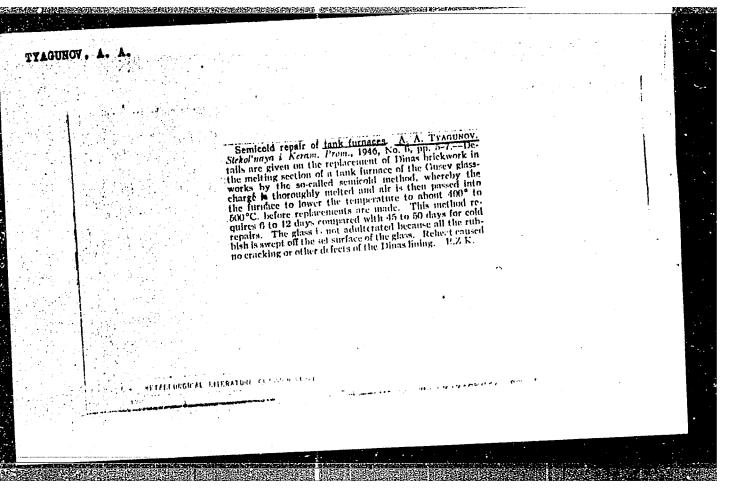
SELIVANOV, A.V., dektor veter, nauk; BUTUZOV, G.M., sterzhly nederbyy sotrudnik; TYAGUNINA, Ye.A., miedabby radiobyy sotonanek

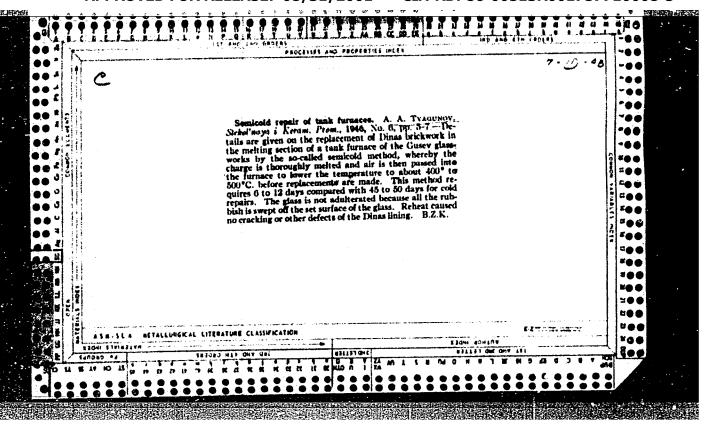
Passive immunity to deptospinosis in young page, Veterinaria 42 no.9:31-33 S 165. (MIRA 18:11)

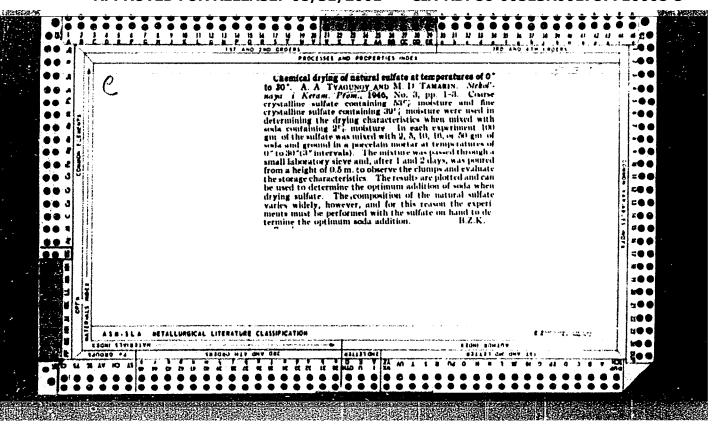
1. Sibirskiy nauchnowissledovatel skiy veterinarnyy institut.

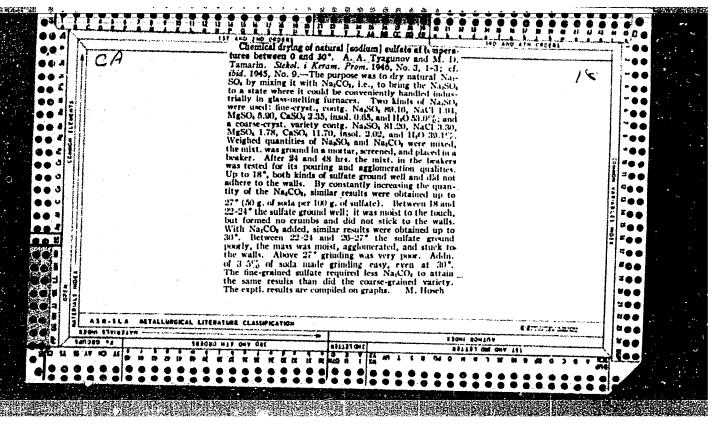


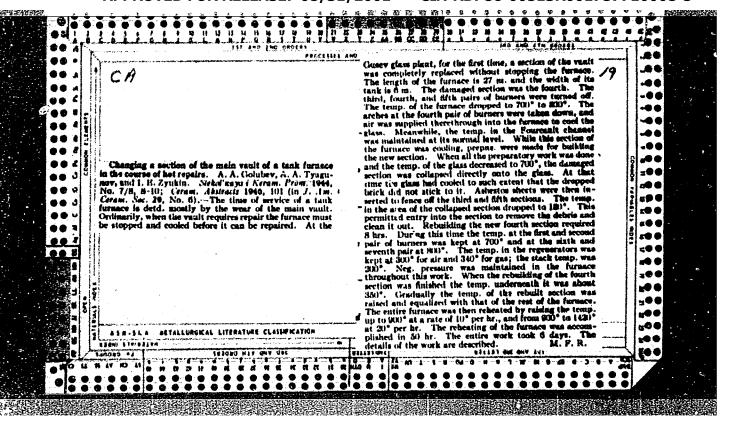


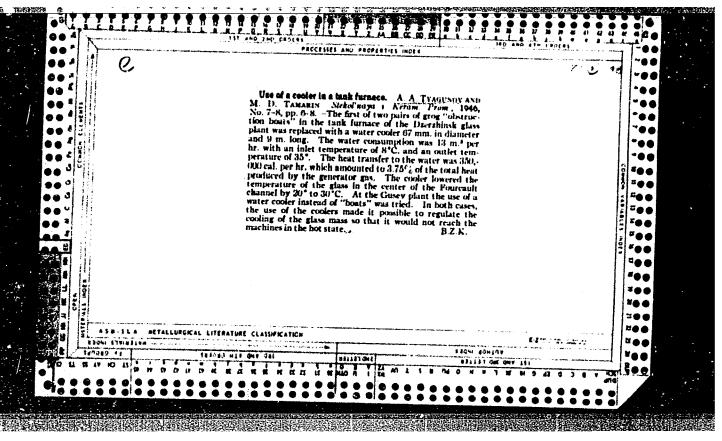


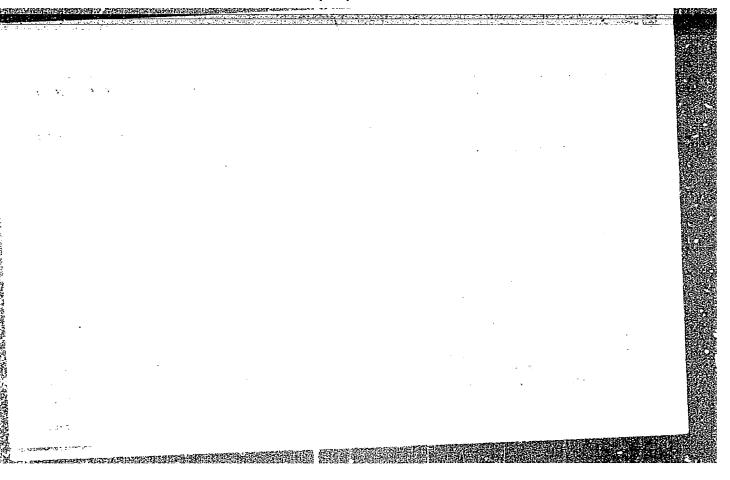


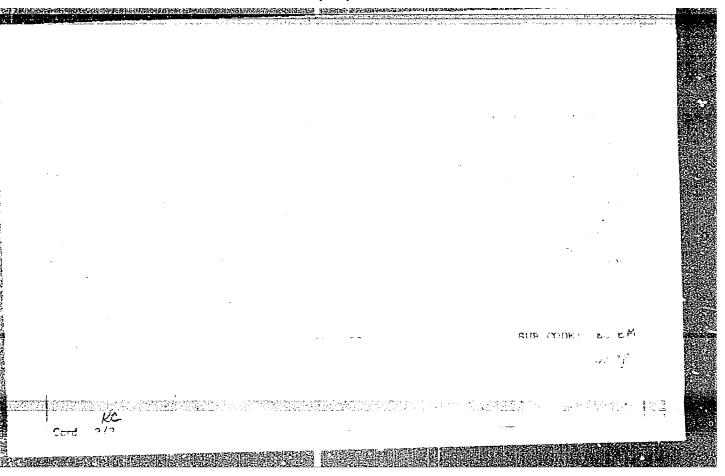












L 1271-56

ACCESSION HR: AP5020245

UR/0168/65/000/004/0092/0093

621.374.4.001

AUTHOR: Brandt, A. A.; Tyagunov, A. V.

. .

TITLE: On the theory of the frequency multiplier in a gas discharge in a strongly nonuniform SHF field

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 4, 1965, 92-93

TOPIC TAGS: plasma physics, gas discharge, external magnetic field, electron collision

ABSTRACT: The authors study the possibilities of the mechanism of frequency multiplication for gas discharge multipliers with a nonuniform field. The model examined is a cylindrical condenser filled with a plasma. An ac voltage $u = U_0 \sin \omega t$ is applied to the linings of this condenser. The entire system is located in an axially symmetric magnetic field directed along the axis of the condenser. In order to increase the amplitude of electron oscillations in the plasma, the magnetic field strength is chosen in such a way that the Larmor frequency of electron rotation is equal to the frequency of the applied voltage. It is assumed that an electron loses

Card 1/2

"APPROVED FOR RELEASE: 08/31/2001

L 1271-66

ACCESSION NR: AP5020245

energy only by collisions with molecules. The stationary orbit of an electron is

$$a = \frac{\epsilon v_0}{2m\gamma \omega r \ln \frac{r_0}{r_1}},$$

where e, m are the charge and mass of the electron, Y is the collision frequency, r is the distance from the center of the orbit to the axis of the system, r_1 , \mathbf{r}_2 are the radii of the internal and external conductors of the condenser. The shape of the induced current signal is calculated and an example is given with specific parameters. It is found that conversion (multiplication) efficiency is increased as pressure is reduced, since energy losses due to collisions are reduced. With operation unsing electron beams, where there are no collisions and the power of the fundamental frequency depends only on electron recoil, the multiplication efficiency of any harmonic approaches 100%. Orig. art. has: 1 figure, 2 formulas, 1 table.

ASSOCIATION: Kafedra fiziki kolebaniy Koskovskogo gosudarstvennogo universiteta

(Department of Physics of Oscillations, Moscow State University)

SUBMITTED: 01Feb65

ENCL: 00

SUB CODE: HE

NO REF SOV: 002

OTHER: 000

Card 2/2

BRANDT, A.A.; KAMINSKIY, V.N.; TYAGUNOV, A.V.

Study of a plasma frequency multiplier. Vest. Mosk. un. Ser. 3:
 Fiz., astron. 20 no.1:82-84 Ja-F '65.

1. Kafedra fiziki kolebaniy Moskovskogo universiteta.

BRANDT, A.A.; TYAGUNOY, A.V.

Theory of a frequency multiplier in a gas discharge within a highly nonuniform superhigh-frequency field. Vest. Mosk.un. Ser. 3: Fiz., astron. 20 no.4:92-93 Jl-Ag '65. (MIRA 18:12)

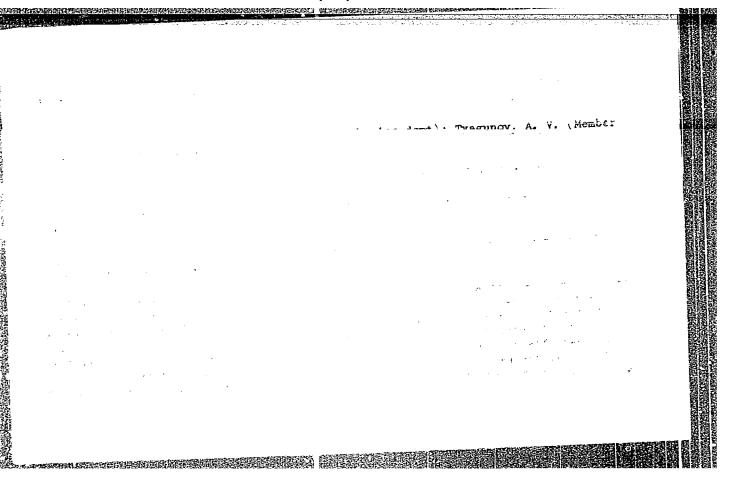
1. Kafedra fiziki kolebaniy Moskovskogo gosudarstvennogo universiteta. Submitted February 1, 1965.

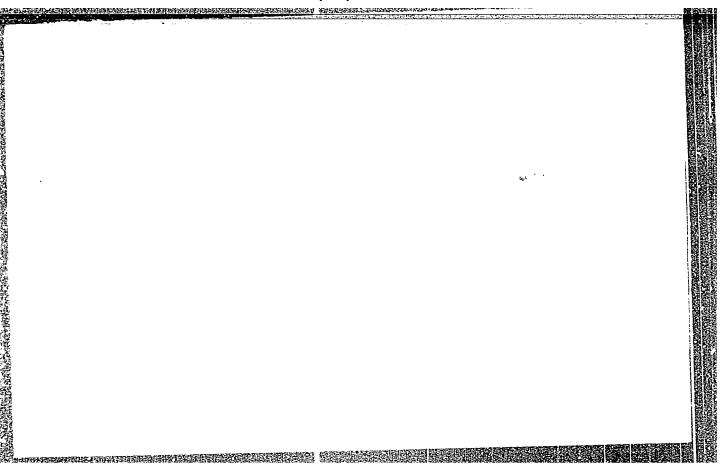
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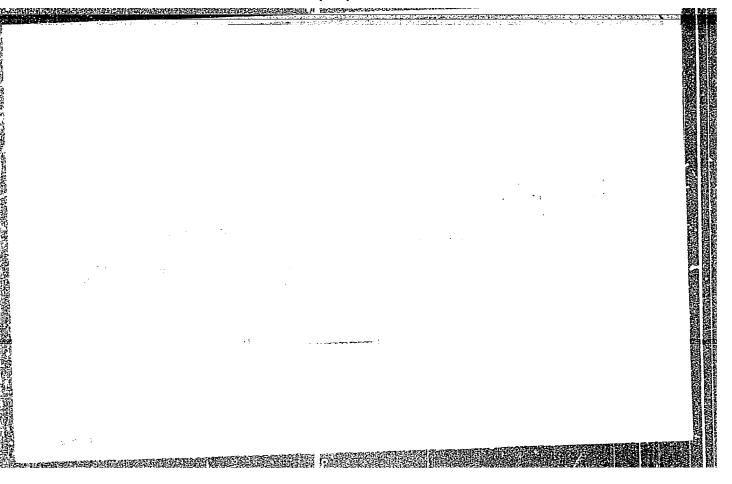
Frequency multiplier for operation in the 3-cm, band using gas-frequency multiplier for operation in the 3-cm, band using gas-discharge plasma in a monamiform electrical field, Andioteka, i elektron, 11 no;1:154-156 Ja '166.

1. Submitted Narch 27, 1965.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757710008-5"







ALEKSANDROV, B.A.; BRANDT, A.A.; TYAGUNOV, A.V.

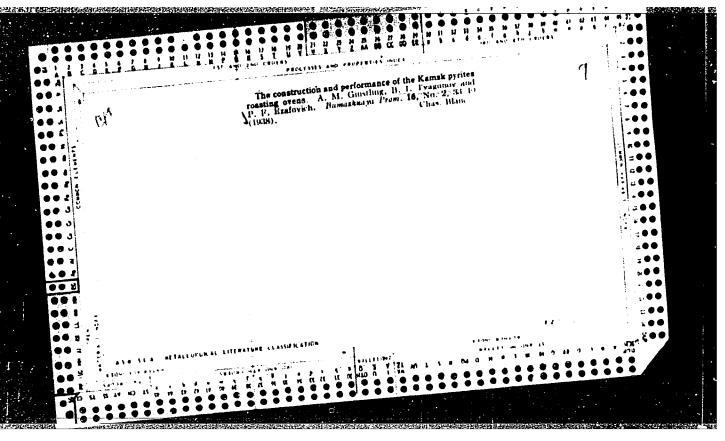
Decimeter frequency multiplier in a gas discharge within a nonuniform electric field. Vest. Mosk.un. Ser. 3: Fiz., astron. 20 no.4:91 Jl-Ag *65.

(MIRA 18:12)

1. Kafedra fiziki kolebaniy Moskovskogo gosudarstvennogo universiteta. Submitted February 1, 1965.

KUNAKOV, N.Yo.; EPSHTEYN, S.L.; TYAGUNGV, B.I.; KIVIT, A.A.

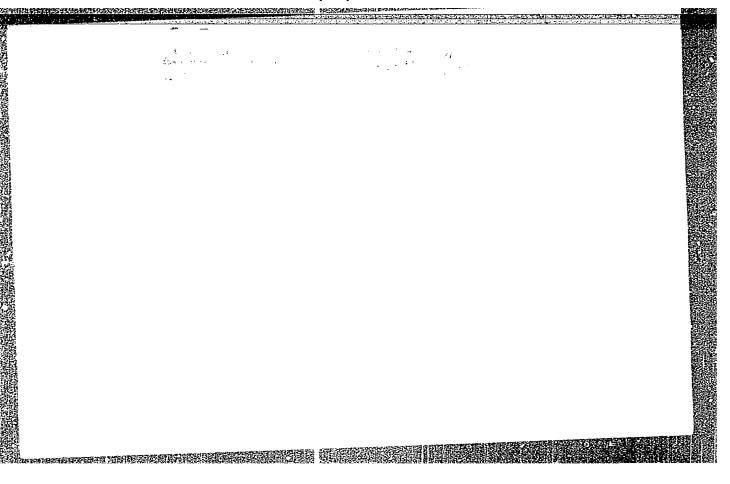
Experimental industrial installation for thermal processing of shale smalls with solid agents for heat transfer. Gaz.prem.ne.9:8-12 S '56. (MIRA 9:10) (Oil shales) (Heat engineering)

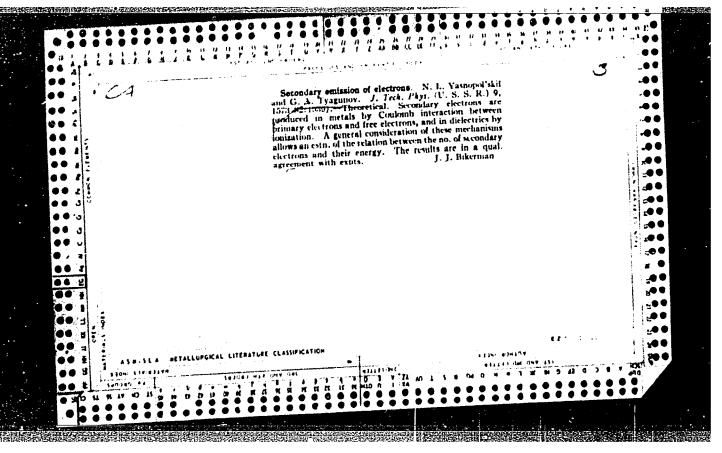


TYAGUIIOV, B.I."

"Power-Chemical Exploitation of Shale Lignites of Esthonia with the Aid of a Solid Heat Carrier,"

paper submitted for the 1st National Congress, Czechoslovak Scientific Technical Society for Fuel Utilization. Karlovy Vary. Czechoslovakia, 12-17 May 58.





TYAGUHOV, G. A.

TYAGUNOV, G. A.

Tyagunov, G. A. defended his Doctor's dissertation in the Moscow Power Engineering Institute in Molotov, USJR, on 26 December 1947, for the academic degree of Doctor of Technical Sciences.

Dissertation: "Fundamentals for the Calculation of Vacuum Systems".
Resume: Tyagunov treated in detail the theory of the calculation of systems used for creation of a vacuum in electronics and physics installations. He covered the simplest systems (for stationary, nonstationary, and quasi-stationary conditions) as well as typical more complex systems.

Official Opponents: Profs. A. K. Timiryazev and S. O. Gvozdover (Doctors of Physicomathematical Sciences); I. L. Kaganov (Doctor of Technical Sciences).

SO: <u>Elektrichestvo</u>, No. 7, Moscow, August 1953, pp 87-92, (W/29344, 16 Apr 54)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757710008-5"

DESCRIPTION OF THE PROPERTY OF

TYAGUNOV, G. A.

D-46 TYAGUNOV. G.A. Elektrovakuumnyye pribory (Electrical vacum devices). Moscow, Gosener oizdat, 1949. 3hCp.
DLC TK7872.V3T5; OUR No. 198-B.

The elementary theory and physics of the operation of various vacuum devices, especailly radio ones. The book is approved by the school department of the Ministry of the Communications Appliances Industry of the USSR as a textbook for the middle technical schools.

TYAGUNOV, G. A.

Author: Tingunov, G. A.

Title: Ion instruments. (Ionnye pribory) -p.

City: Leningrad

Publisher: State Scientific and Technical Publication of Power Engineering

Date: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 4, No. 5, p. 313

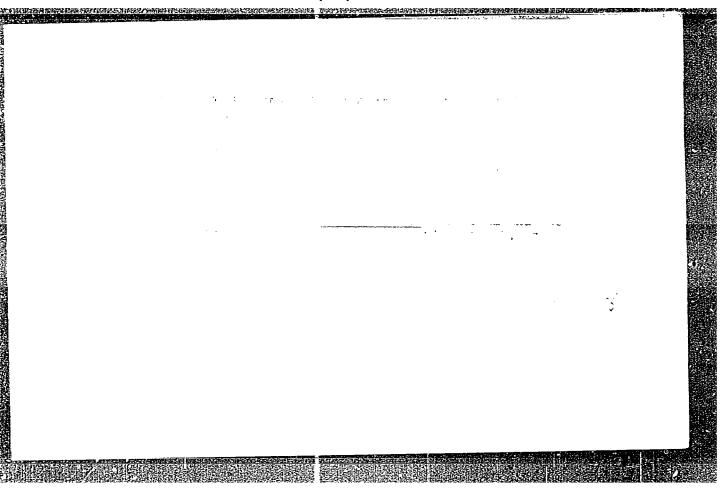
Call No: TK7872.V3T53

Subject: 1. Vacuum tubes. 2. Electric discharges through gases.

SHAPOSHNIKOV, A.A., d. 1942; EHIGAREV, A.A., redaktor; TYAGUNOV, G.A., redaktor.

[Mectronic and ionic instruments] Mektronnye i ionnye pribory. [b. izd., perer.] Moskva, Gos. energ. izd-vo, 1952. 336 p. (MURA 7:1)

(Mectron tubes)



TYAGUNOV, G. A.

A. A. Zhigarev, M. I. Men'shikov, G. A. Tyagunov, Vakuumnaya tekhnika /Vacuum Technology/, series of instructional charts, Gosenergoizdat, 12 charts, 5,000 copies

This series of instructional charts consists of colored placards, each of which shows pictures of different pieces of vaccum apparatus, indicates the principles of their operation, the place of application, and their main parameters: rotary pump for preliminary rarefaction; manometers for low-pressure measurements; a modern vacuum assembly, designed to exhaust large volumes; a laboratory-type glass vacuum installation; leak-finders.

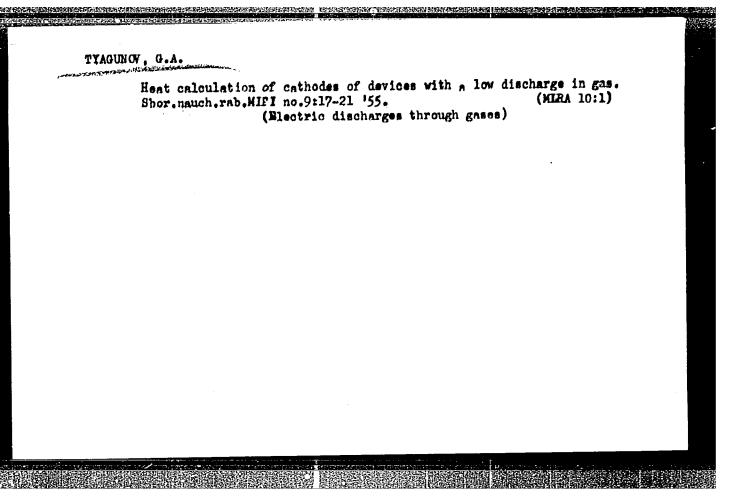
The material of these tables is designed for the intermediate technical staff (technicians, laboratory assistants) of plants and laboratories, who deal with vacuum instruments and installations, and also for engineers of specialties involving vacuum technology.

SO: U-6472, 23 Nov 1954

EHIGAREY, A.A.; MEN'SHIKOV, M.I.; TYAGUNOV, G.A.

[Vacuum apparatus; study charts] Vakuumnaia tekhnika; uchebnye
tablitsy. Mookva, Ges. energ. izd-vo, 1955. (MIRA 9:5)

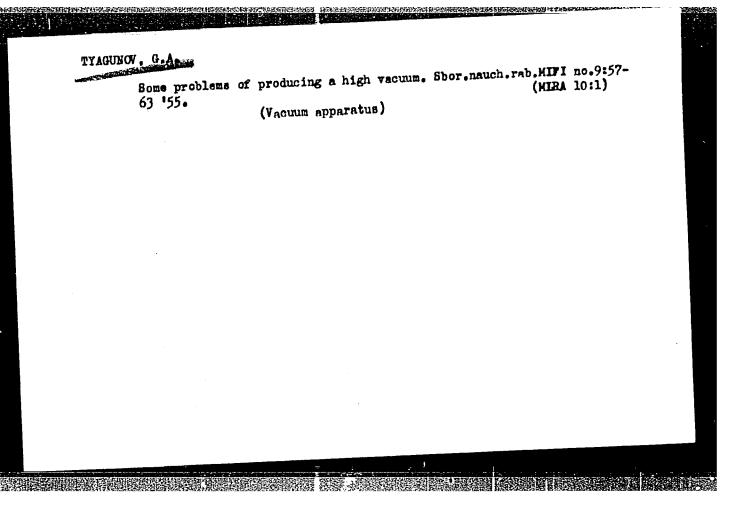
(Vacuum apparatus)



TYAGUNOW. G.A.: NEKERASCVA, I.F.

Galculating homogeneous metal cathodes. Sbor.nauch.rab. MIFInc.9:22(MIRA 10:1)
31 '55.

(Blectric tubes)



TYAPKIN, Yu.D.

"Monoclinic" distortions of the cubic lattice of Ni - Be and Cu - Be alloys due to aging. Dokl. AN SSSR 154 nc. 3:578-581 Ja '64. (MIRA 17:5)

1. Institut metallovedeniya i fiziki metallov TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii im. I.P.Bardina. Predstavleno akademikom G.V.Kurdyumovym.

CIA-RDP86-00513R001757710008-5 "APPROVED FOR RELEASE: 08/31/2001 RELEASED TO THE PROPERTY OF TH

nounce,

'AUTHORS:

89-7-7/32 Val'dner, O.A., Milovanov, O.S., Tyagunov, G.A.,

Shal' nov, A.V.

TITLE:

A Linear Electron Accelerator for 4.5 MeV (Lineynyy elektronnyy

uskoritel' na 4.5 Mev)

PERIODICAL:

Atomnaya Energiya, 1957, Vol. 3, Nr 7, pp. 41-44 (USPR)

MBSTRACT:

The accelerator discussed here has two divided sections for the purpose of being used as elements of a cyclical accelerator. The first section serves as an injector and the second as an accelerating element. The main nodes of the linear accelerator are shown in a schematical drawing. Furthermore, compensation of the defocusing forces is discussed in short. The technical computation of the wave conductor with diaphragm deals with two main problems: with the determination of the geometrical dimensions and with the dynamic of the motion of the electrons in the accelerated system. The initial data for the computation are given. The dynamic of the particles in the accelerated system is computed here by means of Slater's method. The geometrical dimensions were precisely determined with the help of experimentally determined dispersion curves. Experimental Results: Some preliminary operations took place before starting the linear accelerator: The section was tuned to a

Card 1/2

CIA-RDP86-00513R001757710008-5" **APPROVED FOR RELEASE: 08/31/2001**

A Linear Electron Accelerator for 4.5 MeV

89-7-7/32

low level of efficiency by means of a measuring generator. After tuning-in of the highfrequency section, injection and focusing of the electron beam was investigated. The coil was adjusted by two methods: provisionally by means of the ray of a centrifuge in the case of a lacking accelerated field, and finally with the help of a ray of accelerated electrons. Next, the parameters of this accelerator were investigated. The energy of the accelerated electrons and their spectrum was determined by means of a spectroscopic analyzer. The spectra recorded by this analyzer are shown in a diagram. The ratio E/E amounts to 65 and 8% for the first and second sectors respectively. The investigation of the dependence of the energy of the accelerated electrons in the first section upon the length of the wave produced by the magnetron is also of great interest. Also this dependence is shown in form of a diagram. The accelerator described here was constructed for laboratory use. The results obtained will permit the construction of a more perfect accelerator model. There are 5 figures and 7 references, 0 of which are Blavic.

SUBMITTED:

November 9, 1956

AVAILABLE:

Library of Congress

Card 2/2

alectron accelerators-Design 2. Electron accelerators Test results 3. Electron a celerators-Nquipment

CIA-RDP86-00513R001757710008-5 "APPROVED FOR RELEASE: 08/31/2001

TYAGUNOV, GA

AUTHOR:

Not Given.

TITLE:

PERIODICAL:

Radiotekhnika, 1957, Vol 12, Nr 1, p 81 (U.S.S.R.)

Reviewed: 3 / 1957

PA - 2021

NOT RECEIVED AND ADDRESS OF THE PARK OF TH

Received: 2 / 1957

ABSTRACT:

M.I.VITENBERG: Computation of electromagnetic relays for apparatus of automation and communication. Gosenergoizdat, M.L.1956, 464

pages, price 14.50 roubles.

Theory and computation of the electromagnetic relays of paralleland alternating current for apparatus of automation and communication. Analytical and graphoanalytical methods of computations, constructions, test data. The book is destined to be used by engineers

and technical engineers.

M.P.KAPLANOV, V.A.LEVIN: The automatic foundation of frequency, 2.enlarged edition. Gosenergoizdat, M.L. 1956, 200 pages, price 11.50

Description and classification. Computation formulae for construction. The book is for radio specialists and advanced university students.

The Successes attained by Electrovacuum Engineering, edited by Prof. G.A.TJAGUNOV, L.M.Gosenergoizdet, 1956, 256 pages, price 10.25 roubles. A collection of articles on the types, computation methods, properties, and physical phenomena of some new types of electrovacuum de-

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757710008-5"

New Books.

PA - 2021

vices. For students, university professors, and engineers.

ONE CONTROL CONTROL OF THE CONTROL O

F.V.MAJOROV: Electron Regulators. M. Gosenergoizdat, 1956, 492 pages, price 14.20 roubles.

Elements and assemblies of electron regulators with uninterrupted and discrete effect as well as practical schemes.

P.V.SAHAROV: Technology of apparatus construction. Vol 1. Special features of electro-apparatus construction. Technology of current-carrying parts and magnetic conductors. M-L-Gosenergoizdat, 1956, 315 pages, price 7.85 roubles. Construction, technical production.

ASSOCIATION: Not given.

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress.

Card 2/2

TYAGUNOV G. A.

89-3-9/39

AUTHORS:

Vallener, O. A., Milevanov, O. S., Tyagunov, G. A.,

Shallmov, A. Y.

TITLE:

A 6 May Minant Accelerator for Electrons (Lineynyy elektronnyy

uskurtiol' na 6 MeV)

PERIODICAL:

Atomoaya Moengiya, 1958, Vol. 4, Nr 3, pp. 285 - 285 (USSR)

ABSTRACT:

The adapterators earlier described (reference 1) were improved so that they can now supply 6 MeV electrons without having made it necessary to increase the high-frequency input power. The improvement was obtained by a redesign of the second section of the accelerator where the velocity of wave propagation is equal to the velocity of light. In this section the radius a of the shutter was decreased so much that $a/\lambda = 0.13$ (earlier it was 0.17). This made possible an increase of the electric field strength along the axis of up to 30 kV/cm. A widening of the spectrum of energy of the accelerated particles was observed as a consequence of the increase of energy (10 % compared with earlier 8%). There is 1 reference.

C-12-4/9

21(9)

SOV/112-59-2-3683

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 207 (USSR)

AUTHOR: Val'dner, O. A., Milovanov, O. S., Tyagunov, G. A., and Shal'nov, A. V.

TITLE: Linear Electron Accelerator 6 Mev (Lineynyy elektronnyy uskoritel' na 6 mev)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Radiotekhnika, 1958, Nr 2, pp 222-230

ABSTRACT: The Chair of Electrophysical Outfits, Moscow Engineering-Physics Institute, designed a linear traveling-wave electron accelerator that comprises two sections: the bunching section (accelerating the electrons from 0.4 to 0.97 of the velocity of light), and the accelerating section (bringing the velocity closely to that of light). The sections are connected by a sylphon passing the electrons and by a waveguide matching unit. Ultrahigh-frequency oscillations are derived from a magnetron which is fed by 2.5-microsec pulses with a

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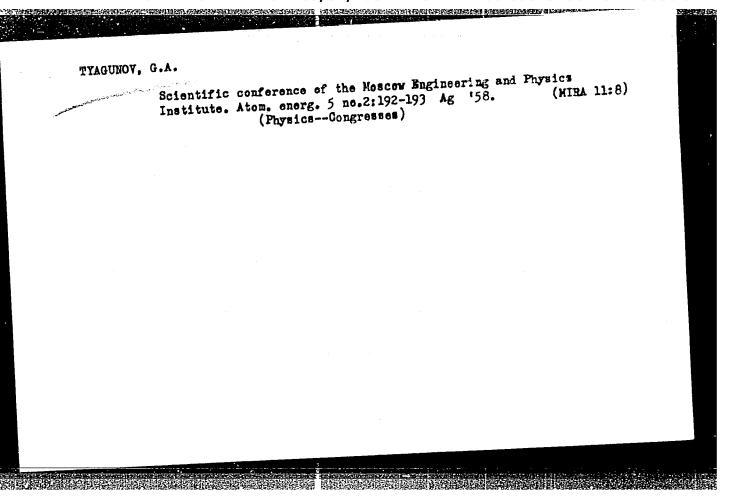
SOV/112-59-2-3683

Linear Electron Accelerator 6 Mev

repetion frequency of 400 cps. Phase shifters are provided at the inputs of both sections. The first section consists of a copper tube (also serving as a vacuumtight envelope) of 90-mm internal diameter; copper diaphragms are secured by the heat-fit method (by liquid-nitrogen cooling). The fosuing coil is slipped over the copper tube. The second section consists of rings held together by longitudinal pins; it has a separate vacuumtight enclosure. The accelerator operates with continuous pumping (seven TsLV-100 pumps, liquid-nitrogen traps). Its current is up to 30 ma; the energy at the first section output, s 3.5 MeV, and at the second section output, 6.5 MeV. Methods of design, experimental characteristics, and possible applications are indicated. Bibliography: 9 items.

P.K.S.

Card 2/2



	[Linear accuskoriteli; 1959. 94]	celerators; a co ; sbornik statei p.	llection of Pod red.	articles] G.A.Tiagun	Lineinve	
April 1984 Million	1 Moncov	*	cheskiy ins	titut.		
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GASYUK, N.S. [translator]; BEL'KIND, L.D., prof., doktor tekhn.nauk, red.; red.; TYAGUNOV, G.A., prof., doktor tekhn.nauk, red.; GAVRILOV, S.S., tekhn.red.

[International electrotechnical dictionary] Mezhdunarodnyi Izd.2. Moskva, Gos.izd-vo fizik

[International electrotechnical dictionary] Mezhdunarodnyi elektrotekhnicheskii slovar. Izd.2. Moskva, Gos.izd-vo fiziko-elektrotekhnicheskii slovar. Izd.2. Moskva fiziko-elektrotekhnicheskii slovar. Izd.2. Moskva fiziko-elektrotekhnicheskii slovar. Izd.2. Moskva fiziko-elektrotekhnicheskii slovar. Izd.2. Mos

1. World Power Conference. U.S.S.R.National Committee. (Electronics--Dictionaries)

TYAGUNOV, G.A.

Terminology in the field of transistor electronics. Izv. vys. ucheb. zav.; radiotekh. 2 no.6:751-753 N-D 159. (MIRA 13:6)

1. Kafedra elektrofizicheskikh ustanovok Moskovskogo inzhenerno-fizicheskogo instituta. (Transistors--Terminology)

CIA-RDP86-00513R001757710008-5 "APPROVED FOR RELEASE: 08/31/2001

SOV/89-7-2-18/24 .21 (0), 24 (0) Tyagunov, G. A. AUTHOR:

Scientific Conference of the MIFI (Nauchraya konferentsiya MIFI)

Atomnaya energiya, 1959, Vol 7, Nr 2, pp 176-177 (USSR) TITLE:

The yearly scientific meeting was held from 17 April to 15 May PERIODICAL: 1959 in the Moskovskiy inzhenerno-fizicheskiy institut (Moscow Physical Engineering Institute). More than 600 participants from ABSTRACT: 100 different institutes attended the 2 plenary and 18 sectional conferences. A total of 148 lectures were held. The following

lectures are specially mentioned: M. K. Romanovskiy on thermo-nuclear examinations, N. G. Basov on the physical foundations of molecular generators and amplifiers, A. I. Leypunskiy on the construction of a fast reactor, I. Ya. Pomeranchuk on the theory of the peripheral collision of mesons

and nucleons, A. B. Migdal on superfluidity and momentum of inertia of the nuclei, A. S. Kompaneyets on the strong electromagnetic gravity wave, V. I. Gol'danskiy on levels which are excited within the nucleus shell and methods of comprehending them, I. L. Rozental' and L. A. Prokhorova on the analysis of the possible experiments for the determination of the measurements of the

 μ -mesons, V. I. Dianov-Klokov on the spectrum of liquid and Card 1/3

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757710008-5"

Scientific Conference of the MIFI

SOV/89-7-2-18/24

crystalline hydrogen under pressure (8000-10000 atm) and an instrument for measuring the absorption curves, V. K. Lyapidevskiy and O. V. Glamazdina on new application possibilities of the diffusion chamber, A. V. Shal'nov on calculation methods for linear electron accelerators with migratory waves, P. A. Ryazin, A. B. Minervin and A. I. Zaboyev on new theories of the electron capture under betatron conditions of the acceleration, Ye. G. Pyatnov on optimum wave length for a generator, S. P. Lomnev and G. A. Tyagunov on magnetic focussing in a linear electron accelerator, O. A. Val'dner, P. A. Dmitrovskiy, D. M. Zorin, Yu. V. Mizin on the 3 mev linear accelerators of the MIFI, and V. V. Kuznetskiy, O. A. Val'dner, V. V. Kotov and V. N. Chesnokov on examination of the electron movement in the system of the elutron with consideration of the scattering fields, O. A. Krayev on impulse method for measuring the heat conduction capacity of liquids and the theory of this method, Ye. M. Khabakhpashewa, Yu. M. Il'in and D. A. Chirov on heat transmission to the eutectic Na-K which flows in a circular space, V. I. Petrovichev on heat transmission to circulating mercury, N. M. Royzin on special conditions when working with a flat triode in

Card 2/5

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757710008-5"

Scientific Conference of the MIFI

507/89-7-2-18/24

the impulse technique, O. S. Poturayev on calculation methods and construction of an impulse transformer for instruments with semi-conductor elements, Ya. A. Ehetagurev on a possibility judge the characteristics of magnetic recording of impulses: B. I. Kal'nin on the element system for a universal digital computor, V. S. Malov on multiple control of the parameters of technologic processes, P. I. Popov on analysis of several systems with which physical energy apparatus can be automatically started, Yu. I. Topcheyev on a method to examine the quality of a reactor control when the reactivity changes stepwise or linearily. G. A. Leont'yev and A. I. Yevstyukhin on examination of the iodine method of refining niobium and characteristics of the metal obtained, P. L. Gruzin and G. G. Ryabova on examination of the micro-distribution of carbon, tungsten, iron and other elements in zirconium and its alloys by use of autoradiography, G. E. Fedorov on determination of the sublimation heat of zirconium and nickel by using radioactive indicators and G. B. Fedorov and A. N. Semenikhin on determination of the diffusion coefficients of chromium, nickel, iron and chromium nickel steels. The literature for all these lectures will be published by the MIFI in a symposium.

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CIA-RDP86-00513R001757710008-5 "APPROVED FOR RELEASE: 08/31/2001

TYAGUNOV, G.A.

PHASE I BOOK EXPLOITATION SOV/5522

Akademiya nauk SSSR. Komitet tekhnicheskoy terminologii

Elektrovakuumnyye pribory; rezhimy, parametry i kharakteristiki (Electronic Devices;
Their Operating Conditions, Parameters, and Characteristics) Moscow, Izd-vo AN SSSR, 1960. 20 p. (Series: Its: Sborniki rekomenduyemykh terminov, vyp. 54) Errata printed on the inside of back cover. 4,000 copies printed.

Resp. Ed. for this issue: G.A. Tyagunov, Professor.

This bcoklet is intended as an aid for technical personnel who design PURPOSE: or operate electronic devices.

COVERAGE: The booklet contains terminology recommended by the Komitet tekhnicheskoy terminologii AN SSSR (Committee on Technical Terminology, AS USSR) for use in scientific, technical, and educational literature, industrial standards, engineering documentation, etc. The terminology covers the operating conditions, parameters, and characteristics of all categories of electronic devices as such, but does not apply to the various systems in which they are used, tested, or investigated. For each technical concept listed, the booklet indicates the recommended

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CIA-RDP86-00513R001757710008-5" APPROVED FOR RELEASE: 08/31/2001

Electronic Devices (Cont.)

SOV/5522

term and, in many cases, alternate or obsolete terms as well. A definition of each technical concept is included. The terms were developed by a special scientific commission of the Committee on the basis of observations from 62 educational, scientific, research, and industrial organizations which, in 1958, were provided with draft copies of the tentative terminology. The special commission consisted of the following persons: A.D. Azat'yan, A.G. Aleksandrov, I. V. Antik, N.N. Vasil'yev, A.A. Zhigarev, S.I. Korshunov, I.V. Lebedev, R.A. Nilender, and G.A. Tyagunov, Chairman. There are no references.

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3

Basic Concepts

7

Operating Conditions

8

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MOROZOVA, I.G.; TYAGUNOV, G.A., prof., red.; POPOVA, S.H., tekhn.red.

SOUTH STREET, SECTION AND ADDRESS.

[Laboratory for the study of vacuum tubes and transistor devices]
Uchebnaia laboratoriis elektrovakuumnykh i poluprovodnikovykh
priborov; opisaniia rabot. Pod red. G.A.Tiagunova. Moskva, Izd-vo
glav.upr.po ispol'zovaniiu atomnoi energii pri Sovete Ministrov
SSSR, 1960. 58 p. (MIRA 13:8)

1. Rukovoditel' laboratorii elektrovakuumnykh i poluprovodnikovykh priborov Moskovskogo inzhenerno-fizicheskogo instituta (for Moro-zova).

(Electron tubes) (Transistors)

TYAGUNOV, G.A. p. 3, 🏓

PHASE I BOOK EXPLOITATION

SOV/5134

Inzhenerno-fizicheskiy institut

Uskoriteli; sbornik statey (Accelerators; Collection of Articles) Moscow, Atomizdat, 1960. 163 p. Errata slip inserted. 3,600 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR.

Ed. (Title page): G. A. Tyagunov, Doctor of Technical Sciences, Professor; Tech. Ed.: S. M. Popova.

PURPOSE: This collection of articles is intended for persons designing and constructing accelerators, and for technical personnel specializing in the field of superhigh frequencies.

COVERAGE: The book contains articles by staff members of the Department of Electrophysical Installations of the MIFI (Moscow Engineering Physics Institute) reflecting theoretical and experimental investigations of linear electron accelerators, betatrons and

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Accelerators (Cont.)

SOV/5134

Synchrotrons; one article deals with ion sources for cyclotrons. The theoretical papers on linear electron accelerators are a continuation of a similar research paper published in the collection of articles "Lineynyye uskoriteli" (MIFI edition, 1959) on the dynamics of particles in these machines. The theoretical papers on particle trapping for acceleration conditions in betatrons and synchrotrons contain a mathematical solution of this problem which takes into account the collective interaction of particles in the beam and the inductive properties of that beam at the moments of onset and break. A number of experimental investigations deals with measurements at shf and with electron accelerator and betatron components, while a special study is concerned with the linear cyclic accelerator ("elutron") proposed a few years ago by one of the coauthors of the article in question. No personalities are mentioned. References accompany most of the articles.

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Foreword

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Accelerators (Cont.)	SOV/5134
Lomnev, S. P. Motion of a Particle in an El Field	ectromagnetic 7
Lomnev, S. P., and G. A. Tyagunov. Radial Poscillations in a Linear Electron Accelerato	
Lomnev, S. P., and G. A. Tyagunov. Trajecto in a Linear Electron Accelerator	ry of Particles
Lomney, S. P., and <u>G. A. Tyagun</u> ov. Concern of Particles in a Linear Electron Accelerato Magnetic Field	ing the Focusing r by a Periodic
Lomnev, S. P., and G. A. Tyagunov. Concerni of a Beam of Particles in a Linear Electron Short Electromagnetic Lenses	ng the Focusing Accelerator by
Lomnev, S. P. Calculation of Particle Dynam Electron Accelerator With a Graphically Give Magnetic Field	ics in a Linear n Focusing
Card 3/p	

TYAGUNOV, G.A., doktor tekhn. nauk, prof., otv. red.

[Transistor devices] Poluprovodnikovye pribory. Moskva, Izd-vo Akad. nauk SSSR. Pt.1.[Basic concepts; terminology] Osnovnye poniatiia; terminologiia. 1962. 22 p. (Its: Sborniki rekomenduemykh terminov, no.62) (MIRA 16:4)

h: Akademiya nauk SSSR. Komitet nauchno-tekhnicheskoy terminologii. (Transistors-Terminology)

TYAGUNOV, Georgiy Aleksandrovich. Prinimali uchastiye: ZHIGAREV, A.A., kand. tekhn. nauk; VAL'DNER, O.A., kand. tekhn. nauk; SHAL'NOV, A.V., kand. tekhn. nauk; CHISTYAKOV, P.N., kand. tekhn. nauk; YUDINSKAYA, I.V., starshiy prepodavatel; FRIDKIN, A.M., tekhn. red.

[Electron-tube and transistor devices (physics, fundamental theory, and principal designs)] Elektrovakummye i poluprovod-nikovye pribory (fizika, elementarnaia teoriia, osnovnye konstruktsii). Moskba, Gos. energ. izd-vo, 1962. 398 p. (MIRA 15:4)

(Electron tubes) (Transistors)

TYAGUNOV, G.A., prof., doktor tekhn. nauk, red.; KUKOLEVA, T.V., red.; VLASOVA, N.A., tekhn. red.

[Accelerators] Uskoriteli; sbornik statei. Pod red. G.A.Tia-gunova. Moskva, dosatomizdat. No.3. 1962. 215 p. (MIRA 15:4)

1. Moscow. Inzhenermo-fizicheskiy institut.
(Particle accelerators)

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\$/759/62/000/003/002/021

AUTHOR: Tyagunov, G. A.

TITLE: Comparative qualities of cyclic and linear electron accelerators

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli. no.3. 1962. 18-20

TEXT: This is a sequel of an estimate made in 1958 of low-energy accelerators, wherein it was shown that linear electron accelerators with traveling wave have the better technical-economic features. The present study covers electron accelerators for much higher energies, 1 BeV upward. The accelerators compared are those and California Institute of Technology, Cornell, Frascatti, Tokyo, are those and California Institute of Technology, Cornell, Frascatti, Tokyo, Cambridge, West Germany, Stanford (Mod. III), London, and Stanford (20 and 45 BeV). It is concluded that cyclic accelerators are cheaper up to about 6 BeV, BeV). It is concluded that cyclic accelerators are cheaper up to about 6 BeV, if no high-intensity primary beams are required, and beyond that the linear accelerator is superior. There are two tables and three references to English-language papers.

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\$/759/62/000/003/003/021

AUTHORS: Lomney S. P., Tyagunov G. A.

TITIE: Linear electron accelerator with constant phase velocity and with

constant electric field intensity.

SOURCE: Moscow. Inzhenerno-fizicheskiy institut, Uskoriteli. no. 3. 1962. 21-38

TEXT: The equations of motion of particles moving in a linear accelerator with constant phase velocity and electric field intensity under various initial conditions were numerically solved by means of the BESM electronic computer in order to investigate the characteristics of a beam obtainable from such an accelerator. The parameters chosen were the initial relative velocity of the injected particles and the amplitude of the electric field intensity of the accelerating wave. The velocity ranged from 0.2 to 0.8, and the field intensity from 50 to 140 kV/cm. The frequency corresponded to a wavelength of 11 cm. The results are plotted in eight figures, which show that the capture of the particle improves with increasing injection energy and electric field intensity. For each value of the field intensity there is a minimum injection energy below which cap-

Card 1/2

Linear electron accelerator...

\$/759/62/000/003/003/021

ture is impossible. The connection between the field intensity and the particle velocity at the start of capture is almost linear. The phases of the particles entering the beam and those leaving are parabolically related in the case of good capture. The capture efficiency is estimated. Energy spectra of the entering particles are plotted and show that the maximum output energy nearly coincides with the maximum particle density. The variation of the energy spectrum under different conditions is discussed. In an accelerator with constant phase velocity the amplitude of the axial field intensity is independent of the radius, thus eliminating the additional phase-energy spread of the particles that move at different distances from the axis. It is shown that magnetic focusing is essential in such an accelerator and that the use of a longitudinal magnetic field covering only a short part of the path ill convicteds a dense beam. Although the computations were partied out with exact equations, approximate relationships are presented to clarify and estimate the qualitative variations of the various quantities.

Card 2/2

S/759/62/900/003/003/021

AUTHORS: Gavrilov, N. M., Lomnev, S. P., Milovanov, O. S., Pyatnov, Ye. G.

Tyagunov, G. A. Shal'nov, A. V.

Output parameters and operating characteristics of linear electron TITLE:

accelerators

Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli. no.3. 1962. 78-82 SOURCE:

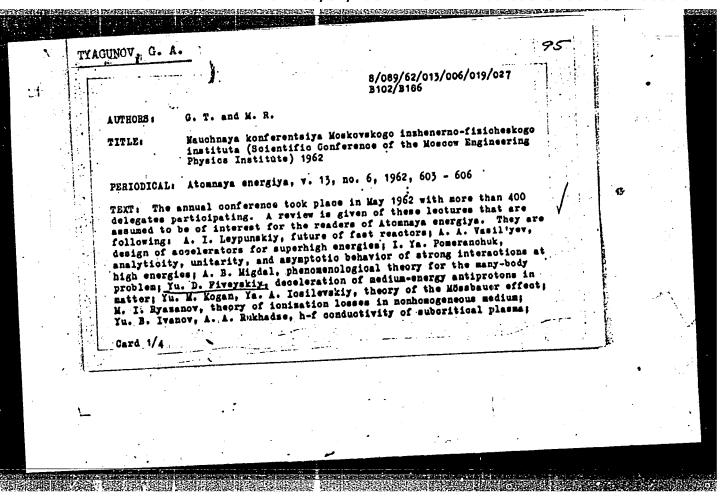
Tentative figures and plots of the output parameters and operating characteristics are presented for several linear accelerators developed at the Moscow Engineering-Physics Institute. The computations were made with the BESM electronic computers. The output parameters evaluated were the energy of the accelerated electrons, the width of the energy spectrum, and the phase width of the electron clusters. The input parameters were the injection energy, the injection current, and the power and frequency of the high-frequency supply. The energy was expressed in terms of its effective action (or thermal action if calorimetry is employed). The operating characteristics were determined in terms of dependence on the injection, the current, the power, and the frequency. Each dependence could in turn pertain to the energy, phase, and spectrum. Lata are

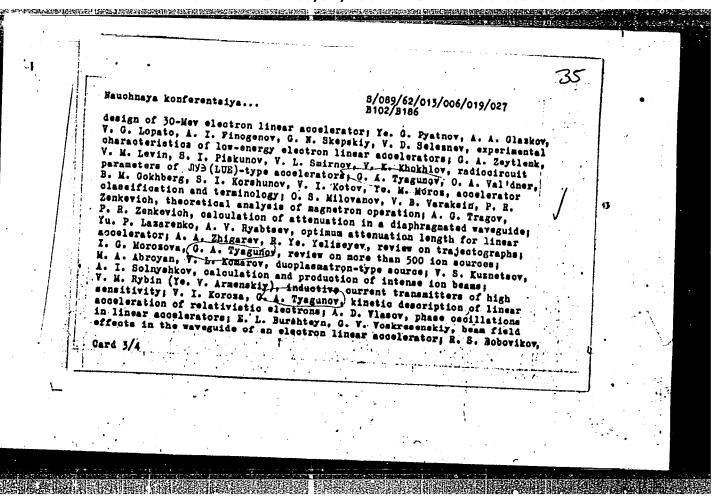
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Output parameters and operating characteristics... S/759/62/000/003/008/021

presented for the 2, 3, 5.5, and 26 MeV accelerators, and it is pointed out that changes in the waveguide structure will modify all the figures presented. There are 10 figures.

Card 2/2





AND THE PERSON OF THE PERSON O s/2759/63/000/005/0035/0039 ACCESSION NR: AT4019719 AUTHOR: Koroza, V. I.; Tyagunov, G. A. (Deceased) TITLE: Kinetic equation for an electron beam in a linear accelerator, neglecting SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli (Accelerators), no. 5, 1963, 35-39 TOPIC TAGS: particle accelerator, linear accelerator, linear electron accelerator, energy spectrum, phase spectrum, relativistic kinetic equation ABSTRACT: One of the important problems in the study of linear electron accelerator is the determination of energy and phase spectra of the accelerated particles, i.e., their distribution functions. It is of interest to compute the distribution functions of the particles in the beam by means of relativistic kinetic equations under given initial conditions on the distribution functions at the input of the accelerator. Neglecting particle interaction, such computations are carried out in the paper. Orig. art. has: 19 formulas. Inzhenerno-fizicheskiy Institut, Moscow (Engineering-Physics ASSOCIATION: Institute)

ACCESSION NR: AT4019720 AUTHOR: Koroza, V. I.; Tyagunov, G. A. (Deceased) TITLE: The question of critical electron flow in the buncher of a linear SOURCE: Moscow. no. 5, 1963, 40-44 Inshenerno-fizicheskiy institut. Uskoriteli (Accelerators), Topic TAGS: linear accelerator, electron flow, relativistic particle, kinetic equation, electron TOPIC TAGS: linear accelerator, electron flow, relativistic particle, accelerator, electron, particle, kinetic equation, electron ABSTRACT: Computations of various systems with bunches of relativistic many cases, however, such computations are inadequate since they neglect the particles. ABSTRACT: Particles have been carried out by means of a single-electron theory. In the bunch as a whole. In the paper behavior of the collection of particles in the bunch as a whole. In the paper behavior of the collection of particles in the bunch as a whole. In the application of relativistic kinetic equations. Just preceding this one (in the same issue) the authors have carried our calculations based on the application of relativistic kinetic equations. Problems encountered in the study of the behavi order to solve the various problems encountered in the study of the behavior Card 1/2 DP86-00513R001757710008-5

ACCESSION NR: AT4019720

of collections of particles, this method has an essential advantage over the methods of integrating the equations of motion of separate electrons. For a linear electron accelerator the authors write down the Maxwell equations and for the bunch in the axial region, the kinetic equation. From these they obtain a formula for the critical current, i.e., the current which is the theoretical maximum possible current under the given operating conditions. Crig. art. has: 1 figure and 10 formulas.

ASSOCIATION: Inzhenerno-fizicheskiy institut, Moscow (Engineering-Physics Institute)

SUBMITTED: 00

DATE ACQ: 19Mar64

ENCL: 00

SUB CODE: NP

NO REF SOV: 002

OTHER: 001

Trangential stresses in beams subjected to bending. Nauch.
dokl.vys.shkoly; stroi. no.2:111-114 '59.

(MIRA 13:4)

1. Rekomendovana kafedroy soprotivleniya materialov Odesskogo
inzhenerno-stroitel'nogo instituta.

(Strains and stresses) (Girders)

TYAGUNOV, I.A., kand.tekhn.nauk

Bending of cantilevers with isosceles triangle cross sections subjected to concentrated loads in the plane of symmetry. Exact.

dokl.vys.shkoly; stroi. no.2:109-110 '58. (Strains and stresses)

124-57-1-1072

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p, 149 (USSR)

AUTHOR: Tyagunov, I. A.

TITLE: Verification of the General Stability of Beams According to the Theory of Prof. V. Z. Vlasov (Proverka balok na obshchuyu

ustoychivost' po teorii professora V. Z. Vlasova)

PERIODICAL: Sb. tr. Odessk. gidrotekhn. in-ta, 1954, Nr 6, pp 144-154

ABSTRACT: Examination of the separate and joint action of a concentrated force at the center and a uniformly distributed load along the length of a thinwalled beam with a symmetrical open profile supported at two points. The solution is performed according to Bubnov's method. The angle of twist is approximated by a function in the form of the series

 $\theta = \sum_{i}^{i} a_{i} \sin \frac{i \pi z}{l}$

As a result, equations are obtained for the critical loading upon successive retention of one, two, and three terms of the series. Equations obtained by retention of three terms of the series were found to be exceedingly cumbersome. The computational formulas recommended for the critical loadings and critical stresses are

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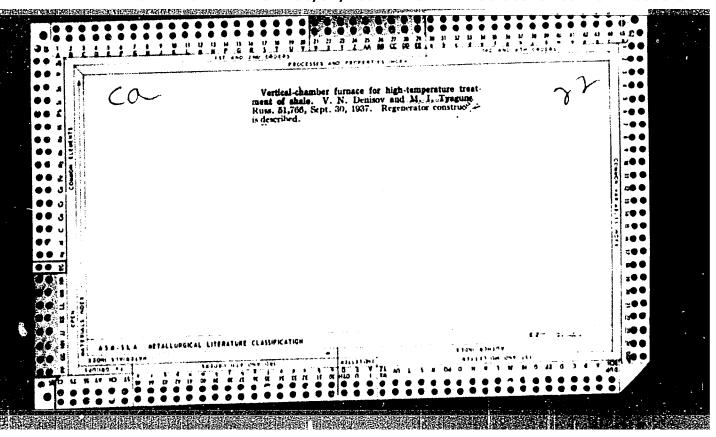
Verification of the General Stability of Beams According to the Theory (cont.)

obtained by means of a solution with retention of two terms of the 0 series and a few simplifications, wherein certain terms, which yield only a minor numerical contribution, are discarded. Some general conclusions given by the author from the solution of a particular example appear unconvincing, particularly his statement that the calculation method for the stability of beams developed by G. M. Chuvikin Obshchaya ustoychivost' monorel' sovykh balok (General Stability of Monorail Beams), Sb. VNIIPTMASH, Mashgiz, 1948 7, yields incorrect results. Equally unfounded is the statement on the allegedly insufficient verification of the stability of beams according to N and TU-1-46. It is obvious that a comparative evaluation of these methods can be given only upon a more generalized analysis. Formula (12), which is recommended for the evaluation of the errors in the solution, is obtained under exceedingly crude assumptions and, apparently, does not yield a satisfactory answer relative to the difference between approximate and exact solutions. It is also necessary to note that in equation (3) a typesetting error has crept in; the numerical coefficient before the second term should be one-tenth of the value shown.

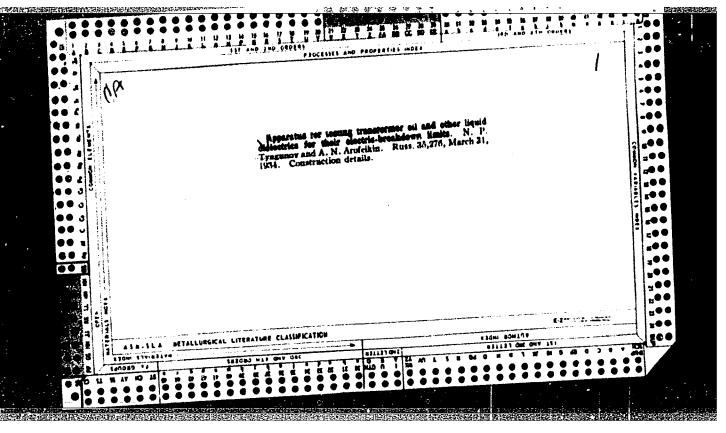
1. Beams--Stability--Theory

V. N. Arbuzov

Card 2/2



	v, N.P.		
TIRGUNG			
	Feb 49		
	USSR/Electricity Inductors Insulation, Electric		
	"Defect in Type PNB-35 Inductors," V. F. Voskresenskiy, N. P. Tyagunov, Engineers, 1/3 P		
	"Elek Stants" No 2		
	Refers to insulation testings, conducted involtage laboratories, during which subject inductors were rejected. Discusses various defects and emphasizes necessity of improving construction.		
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TYAGUNOV, S.A., inzhener.

Organization of work in erecting one-story industrial buildings equipped with cranes. Stroi.prom.34 no.12:10-12 D '56.

(MLRA 10:2)

1. Trest Matkozhpromstroy Ministerstva stroitel'stva predpriyatiy metallurgicheskoy i khimicheskoy promyshlennosti SSSR.

(Cranes, derricks, etc.) (Reinforced concrete construction)

(Factories)

Investigating the screwdown mechanism of a slabbing mill working "to the limit." Izv. vye. ucheb. mav., chern. met. 8 no.10s158-161 '65. (MIRA 18:9)

1. Ural'skiy politekhnicheskiy institut.

TYAGUNOV, V. A.

TYAGUNOV, V. A.: "The optimum system of working reversing rolling mill stands." Min Higher Education USSR. Ural Polytechnic Inst imeni S. M. Kirov. Leningrad Polytechnic Inst imeni M. I. Kalinin. Sverdlovsk, 1956. (Dissertation for the Degree of Doctor in Technical

Sciences.)

Source:

Knizhnaya letopis'

No 40

1956

Moscow

ZLATKIN, Moisey Grigor'yevich; DOROKHOV, Nikolay Nikolayevich; LEHEDEV,
Nikolay Ivanovich; MAKAROV, Nikolay Yevgen'yevich; NEYSHTAT, Zyama Fal'kovich; SYCHEV, Arkadiy Mikhaylovich; SKLYUYEV, P.V., kand.
tekhn. nauk, retsenzent; TASHCHEV, A.K., kand. tekhn. nauk, retsenzent; TRUBIN, V.N., kand. tekhn. nauk, retsenzent; VSHIVKOV, P.P.,
inzh., retsenzent; KON'KOV, A.S., inzh., retsenzent; IEBEDEV, N.S.,
inzh., retsenzent; POTEKUSHIN, N.V., inzh., retsenzent; TYAGUHOV, V.A.,
doktor tekhn. nauk, red.; SOKOLOV, K.N., kand. tekhn. nauk, red.;
SKORNYAKOV, V.B., red.; YAROSHENKO, Yu.G., red.; ZAKHAROV, B.P., inzh.,
red.; AMIROV, I.M., inzh., red.; MYSHKOVSKIY, V.A., inzh., red.;
SHELEKHOV, V.A., inzh., red.; BOGOMOLOV, O.P., inzh., red.; KATS, I.S.,
inzh., red.; LEVANOV, A.N., inzh., red.; DUGINA, N.A., tekhn. red.

[Handbook on forging practices] Spravochnik rabochego kuznechnoshtampovochnogo proizvodstva. By M.G.Zlatkin i dr. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 776 p. (MIRA 14:9)

(Forging-Handbooks, manuals, etc.)

Tyagunov, V. A.

"Analysis of the Methods of Calculating Specific Roll Pressures in Rolling", Ural'skiy Politekanicheskiy Institut, Sbornik Statey, Nr 48, 1953, Sverdlovsk.

Tyagunov, V. A.
"Ratsional'naya Kalibrovka List Obykh Stanov", Metallurgizdat, 1944.

Tyagunov, V. A. and Golovin, A. F.

"Ratsional'ye Rezhimy Obzhatiy pri Prokatke Tonkakh Listov", Metallurgizdat, 1949.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757710008-5"

KON'KOV, Arkadiy Sergeyevich; RAYTSES, Veniamin Borisovich; GARTATEV.
P.I., inzh., retsenzent; KAZAKOV, S.S., inzh., retsenzent;
TYACHNOV, V.A., kand.tekhn.nauk, red.; DUGINA, W.A., tekhn.red.

[Skill in forging] Masterstvo kuznetsa. Moskvs, Gos.neuchnotekhn.izd-vo mashinostroit.lit-ry, 1959. 350 p.

(MIRA 14:1)

(Forging)

KAMENSHCHIKOV, G.G.; TYAGUNOV, V.A., kandidat tekhnicheskikh nauk, redaktor; DUGHA, F.A., tekhnicheskiy redaktor

[Forging] Kuznechnoe proizvodstvo. 2-e, ispr. i dop. izd. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 406 p. (Forging)

(Forging)

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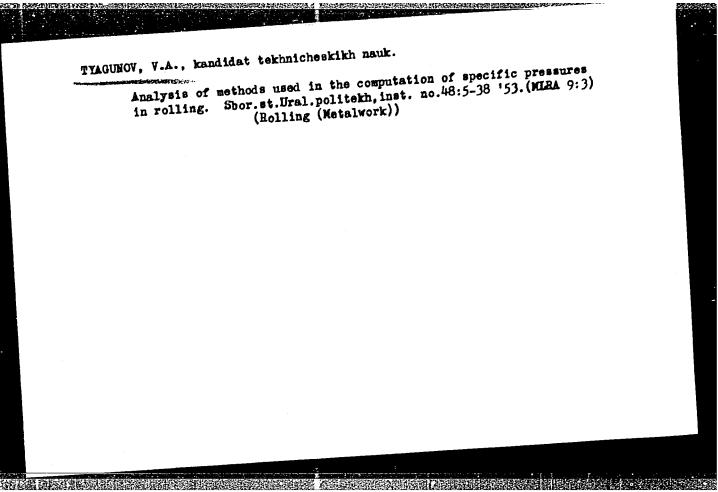
TYACUNOV. V.A., dotsent, kandidat tekhnicheskikh nauk.

Operating conditions of reversing rolling mills. Trudy Ural.

(MIRA 9:11)

politekh.inst. no.45:5-40 '53.

(Rolling mills)



SHVEYKIN, Viktor Vasil'yevich, professor; TYAGUNOV; Vladimir Arkad'yevich, dotsent; GERMANOV, H.A., redaktor; KELVNIK, V.F., redaktor; KOVALEUKO, N.I., tekhnicheskiy redaktor.

[Technology of rolling] Tekhnologia prokatnogo proizvodstva. Sverdlovsk, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi 1 tsvetnoi metallovsk, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi 1 tsvetnoi metallovsk, Gos.nauchno-tekhn. izd-vo lit-ry po (MIRA 9:6) lurgii, Sverdlovskoe otd-nie, 1956. 444 p.

(Rolling (Metalwork))

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757710008-5"

TYAGUNOV, V. A.

11/5 662.336 .ss

SHVEYKIN, Viktor Vasil'Yevich

Tekhnologiya Prokatnogo Proizvodstva (technology of rolling mill production, by) V. V. Shveykin (i) V. A. Tyagunov. Sverdlovsk, Metallurgizdat, 1956.

444 P. Illus., Diagrs., Tables

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